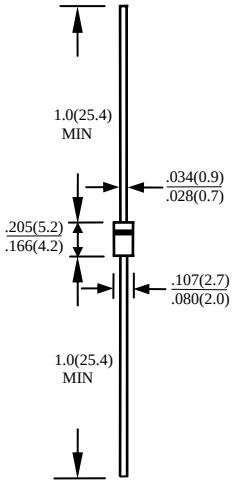
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1.5 WATT SILICON ZENER DIODE

1N5921B THRU 1N5956B



FEATURES

- PLASTIC PACKAGE HAS UNDERWRITERS LABORATORY FLAMMABILITY CLASSIFICATION 94V-0
- LOW ZENER IMPEDANCE
- EXCELLENT CLAMPING CAPABILITY

MECHANICAL DATA

- CASE: MOLDED PLASTIC, DO41, DIMENSIONS IN INCHES AND (MILLIMETERS)
- TERMINALS: AXIAL LEADS SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY: COLOR BAND DENOTES CATHODE
- MOUNTING POSITION: ANY
- WEIGHT: 0.34 GRAM

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55 TO + 150°C

ELECTRICAL CHARACTERISTICS (TL=30°C UNLESS OTHERWISE NOTED VF=1.5V MAX, @IF = 200mA DC FOR ALL TYPES)

JEDEC TYPE	NOMINAL ZENER VOLTS V_Z@I_{ZT} VOLTS	TEST CURRENT I_{ZT} mA	MAXIMUM ZENER IMPEDANCE			MAX. REVERSE LEAKAGE CURRENT		MAXIMUM DC ZENER CURRENT I_{ZM} mA DC
			Z_{ZT} @ I_{ZT} Ohms	Z_{ZK} @ Ohms	I_{ZK} mA	I_R µA	@ V_R VOLTS	
1N5921B	6.8	55.1	2.5	200	1	5	5.2	220
1N5922B	7.5	50.0	3	400	0.5	5	6	200
1N5923B	8.2	45.7	3.5	400	0.5	5	6.5	182
1N5924B	9.1	41.2	4	500	0.5	5	7	164
1N5925B	10	37.5	4.5	500	0.25	5	8	150
1N5926B	11	34.1	5.5	550	0.25	1	8.4	136
1N5927B	12	31.2	6.5	550	0.25	1	9.1	125
1N5928B	13	28.8	7	550	0.25	1	9.9	115
1N5929B	15	25.0	9	600	0.25	1	11.4	100
1N5930B	16	23.4	10	600	0.25	1	12.2	93
1N5931B	18	20.8	12	650	0.25	1	13.7	83
1N5932B	20	18.7	14	650	0.25	1	15.2	75
1N5933B	22	17.0	17.5	650	0.25	1	16.7	68
1N5934B	24	15.6	19	700	0.25	1	18.2	62
1N5935B	27	13.9	23	700	0.25	1	20.6	55
1N5936B	30	12.5	26	750	0.25	1	22.8	50
1N5937B	33	11.4	33	800	0.25	1	25.1	45
1N5938B	36	10.4	38	850	0.25	1	27.4	41
1N5939B	39	9.6	45	900	0.25	1	29.7	38
1N5940B	43	8.7	53	950	0.25	1	32.7	34
1N5941B	47	8.0	67	1000	0.25	1	35.8	31
1N5942B	51	7.3	70	1100	0.25	1	38.8	29
1N5943B	56	6.7	86	1300	0.25	1	42.6	26
1N5944B	62	6.0	100	1500	0.25	1	47.1	24
1N5945B	68	5.5	120	1700	0.25	1	51.7	22
1N5946B	75	5.0	140	2000	0.25	1	56	20
1N5947B	82	4.6	160	2500	0.25	1	62.2	18
1N5948B	91	4.1	200	3000	0.25	1	69.2	16
1N5949B	100	3.7	250	3100	0.25	1	76	15
1N5950B	110	3.4	300	4000	0.25	1	83.6	13
1N5951B	120	3.1	380	4500	0.25	1	91.2	12
1N5952B	130	2.9	450	5000	0.25	1	98.8	11
1N5953B	150	2.5	600	6000	0.25	1	114	10
1N5954B	160	2.3	700	6500	0.25	1	121.6	9
1N5955B	180	2.1	900	7000	0.25	1	136.8	8
1N5956B	200	1.9	1200	8000	0.25	1	152	7

NOTE：SUFFIX〝B〞FOR ±5%

RATINGS AND CHARACTERISTIC CURVES 1N5921B THRU 1N5956B

TEMPERATURE COEFFICIENT RANGES (90% of the Units are in the Ranges Indicated)

Figure. 1 - Units To 12 Volts

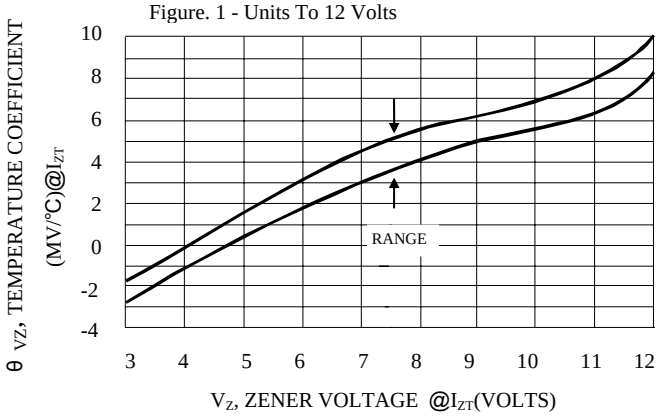
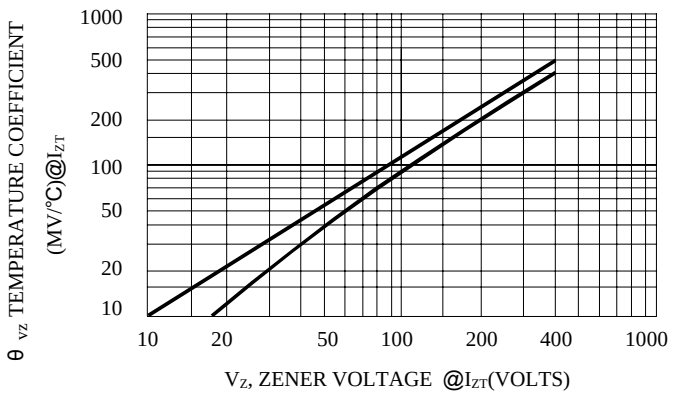


Figure. 2 - Units 10 To 1400 Volts



ZENER VOLTAGE versus ZENER CURRENT

Figure. 3 - V_Z=3.3thru 10 Volts

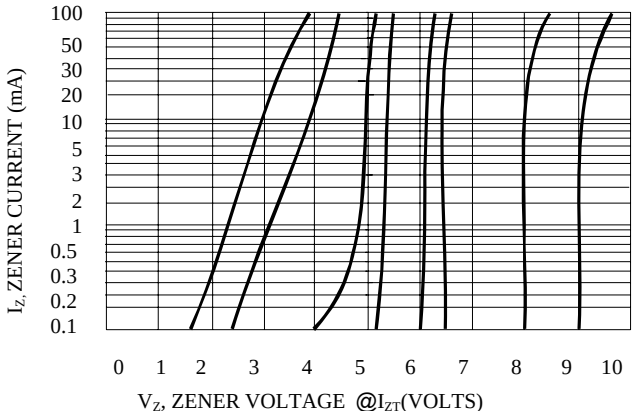


Figure. 4 - V_Z=12 thru 82 Volts

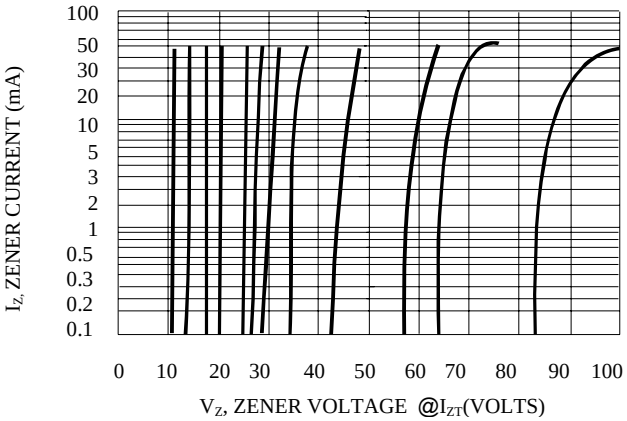


Figure. 5 - V_Z=100 thru 400 Volts

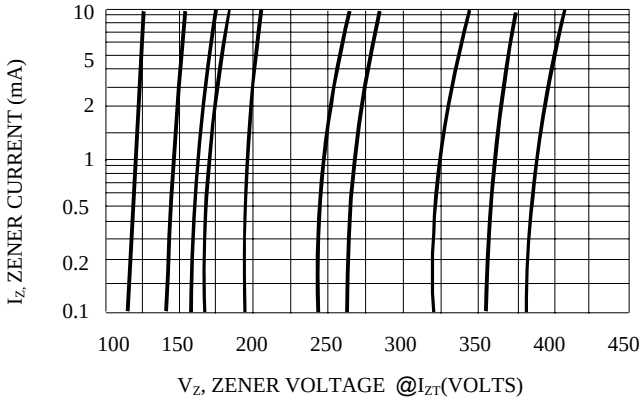


Figure. 6 - Typical Thermal Resistance

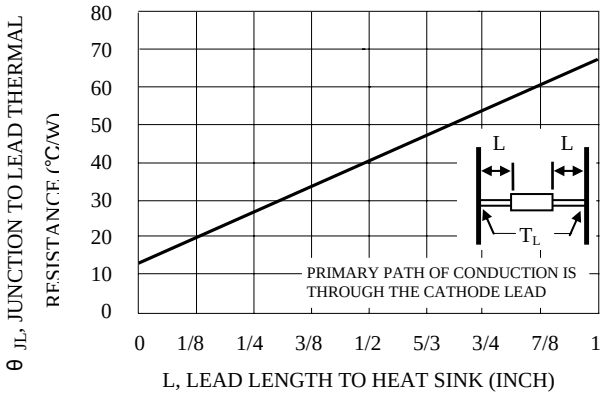


Figure. 7 - Power Temperature Derating Curve

